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Hon-ferrous metals from Voronezh mere handled by the main pailroad lines converging in Bryansk. The Bezhitsa meilroad station had not been rebuilt by May 1349. The lumber required was floated on the Bolva Miver, which is 50 meters wide and to 6 meters deep, and on the Desna Miver, which is 60 meters leaves and 5 to 6 meters deep. A new reilroad bridge across the Lolva Miver was completed in 1949. It had two tracks, was 60 meters long and was a steel truss bridge resting on one mier. The bridge has a river elearance of 6 meters. A wooden road had a load capacity of 60 tons. A factory airfield was south of the Desna Miver, east of the Desna bridge. Factory-owned fouglas aircraft and small biplanes were stationed there. Consumed on the same day either approved or not approved.  CLASSIFICATION CONFIDENTIAL STATE #0 x Jay 2 x Jay 2 x Jay 3 x Jay 4 x Jay 2 x Jay 3 x Jay 4 x Jay 4 x Jay 4 x Jay 5 x Jay 5 x Jay 5 x Jay 5 x Jay 6 x Jay 7 x Jay 7 x Jay 7 x Jay 7 x Jay 8 x Jay 7 x Jay 8 x Jay 7	2.	reconstruction was started in was reached. The plant was of Jerman P's who were speci was scheduled to reach its factory area in addition to the factory area in addition	length of 6	the plant mathdrawal in 194 1947, the status and with the consist things. The by 1952.	ls demo- l. Its of 1941 peration e plant 25  laid in
Station had not been rebuilt by Tay 1049. The Dezhitsa railroad was floated on the Folva Tiver, which is 50 neters wide and to a meters deep, and on the Desna Tiver, which is 60 neters wide and 5 to 5 meters deep. A new railroad bridge across the Lolva Tiver was completed in 1949. It had two tracks, was 60 the bridge has a river clearance of 6 meters. A wooden road bridge across the Dosna Tiver was about 100 meters 1 and end of the Desna Tiver, east of the Desna Bridge. Factory owned a Louglas aircraft and small biplanes were stationed there. Contained on the same day either approved or not approved.  CLASSIFICATION CONFIDENTIAL Declassified  Document No	2.	reconstruction was started in was reached. The plant was of Jerman P's who were speci was scheduled to reach its factory area in addition the factory area in addition steel rolled inverts from	length of 6 to roads it	the plant mathdrawal in 194 1947, the status and with the coo ach things. The by 1953.  64 km had been 1 th a total leng iron and open-	ls demo- l. Its of 1941 peration e plant 25  laid in gth of
Station had not been rebuilt by 1349. The lumber required was floated on the Folva liver, which is 50 neters wide and to 8 meters deep, and on the Desne liver, which is 60 neters lide and 5 to 8 meters deep. A new reilroad bridge across the betters long and was a steel truss bridge resting on one pier. The bridge has a river clearance of 6 meters. A wooden road bad a load capacity of 60 tons. A factory airfield was south foughts aircraft and small biplanes were stationed there. Contained on the same day either approved or not approved.  STATE # X MAY X NARE DISTRIBUTION CONFIDENTIAL Declassified  Document No	2.	reconstruction was started in was reached. The plant was of Jerman F's who were speci was scheduled to reach its f allroad tracks with a total the factory area in addition to the factory area in a factory area.	length of 6 to roads with the only continued to the conti	the plant mathdrawal in 194 1947, the status and with the coo uch things. The by 1953.  64 km had been in the a total leng iron and onen-in mitogorsk, crue and the Caucasus	ls demo- l. Its of 1941 neration e nlant 25  laid in gth of hearth de oil
The limber required  to E meters doep, and on the Desne liver, which is 50 meters wide and  vide and 5 to 6 meters doep. A new reilroad bridge across the  lolva liver was completed in 1949. It had two tracks, was 60  The bridge has a river clearance of 6 meters. A wooden road  bridge across the Dosna liver was about 100 meters ling and  rad a load capacity of 60 tons. A factory airfield was south  fourlas aircraft and small biplanes were stationed there. Con-  burned on the same day either approved or not approved.  CLASSIFICATION CONFIDENTIAL  STATE HOLD K MAWY ON I MSRB DISTRIBL  Document No. 3  No Change In Class. Declassifical  Declassification  De	2.	reconstruction was started in was reached. The plant was of Jerman F's who were speci was scheduled to reach its f a litroad tracks with a total the factory area in addition as in the incoming shipment of the policy of the pol	length of 6 to roads with the only continued to the conti	the plant on the that and in 194 1947, the status of with the cooler things. The by 1952.  64 km had been the a total lenging and onen-tringersk, crucing the Caucasus ndled by the na	ls demo- l. Its of 1941 neration e nlant 25  laid in gth of hearth de oil
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EAR RE-REVIEW  The bottom and was a steel truss bridge resting on one pier.  Betters long and was a steel truss bridge resting on one pier.  Betters long and was a steel truss bridge resting on one pier.  Bridge across the Dosna liver was about 100 meters long and bad a load capacity of 60 tons. A factory airfield was south couglas aircraft and small biplanes were stationed there. Construction drawings were flown to loscow and usually were restarted on the same day either approved or not approved.  CLASSIFICATION CONFIDENTIAL  STATE #2 X MANY	2.	reconstruction was started in was reached. The plant was of Jerman F's who were speci was scheduled to reach its f a scheduled to reach its f ailroad tracks with a total the factory area in addition as the factory area in addition steel rolled injots from the from Baku, coal from the Jone Hon-ferrous retals from Voron ailroad lines converging in station had not been receit was floated on the February	length of 6 to roads with the only grade line and lagets Basin and Bayers Basin and Bryansk. The by lay 1949	the plant mathdrawal in 194 1947, the status and with the cooled things. The by 1953.  64 km had been lith a total leng iron and onen-ly mitogorsk, cruc and the Caucasus andled by the mathe Bezhitsa pai	of load  of load  of load  of load  of load  contact  contact  de oil  con
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Struction drawings were flown to oscow and usually were re- turned on the same day either approved or not approved.  CLASSIFICATION CONFIDENTIAL  STATE #0 x   4AVY	2,	reconstruction was started in was reached. The plant was of Cerman P's who were speci was scheduled to reach its for a scheduled to reach its for a scheduled to reach its for the factory area in addition the factory area in addition steel rolled ingots from the Construction Baku, coal from the Construction Baku, coal from the Construction and lines converging in station had not been rebuilt was floated on the Folya lives floated on the Folya lives to a meters deep, and on the colva liver was completed in the bridge has a river cleared bridge across the Cerman Cer	length of 6 to roads with the formal states in a state of the formal state of the form	the plant mathdrawal in 194 1947, the status of with the cooled things. The by 1953.  64 km had been in the a total lenging and onen-fritogorsk, crucing the Caucasus ndled by the mather mather in the lumber resonable of the cooled	ls demo- l. Its of 1941 peration e nlant 25  laid in gth of hearth de oil s, and ain llroad couired c and neters cos the mas 60 pier,
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#### Legend

- 1. ain offices and entrance to the plant. This building, an old two-story brick structure, 20x60 neters, had a sheet-metal roof.
- 2. Frame department (Franostroyeniye), two brick and steel workshops built in 1914. The construction of two further workshops was planned. This department, which had a railroad sour, was pruipped with a parallel planing machine used for the machining of steel plates up to 15 neters long, but also usable for the manufacture of boilers; about 12 drilling machines each with one to eight 40-mm spindles; about 8 punching machines (expentic presses); electric welding sets; cranes, and traveling manes with a lifting capacity of up to 60 fons.
- 3. ailroad car department, covering an area of about 80x120 neters, and commising three stone and steel workshops located in a row. These shops and netel moofs with skylights. The shops were completed in 1949 but not equipped.
- 4. Friming pool, stone structure about 20x60 meters. Over the pool was an eternit roof. Ty its side was the compressor station, a stone structure about 20x50 meters. This station was equipped with a 500 meters about 20x50 meters.
- 5. Let compressor station, a stone structure, about 20x50 neters, with a sheet-metal roof. This station had two Doehler compressors from Firnitz near Tiener-Teustadt, and 2 electric motors of 700 IP each, likewise from Firnitz. The compressed air tank had a capacity of 1,400 liters, and the maximum pressure was 14 atmospheres.
- 6. Power plant built by the Dykerhof & Widmann Firm in 1908. The original steel and stone structure reasured about 20x120x24 moters. Detween 1910 and 1912 a boiler house for steam turbines was attached to this building. The annex, a steel and stone structure, measured about 40x80 meters and was eminmed with 12 boilers. The output per turbine was 1,000 to 2,000 HT. The burbines were delivered by the Dreslau turbine factory. Six dynamos, possibly old German ADA sets, were also in the plant. building erected in 1949 was designed to make the factory independent of outside deliveries. Considered the most modern building in the entire factory, this steel and reinforced concrete structure measured 50x50x60 meters and had a smokestack 320 meters high. The smokestack was to be dismantled. The new building had a coal dust hoist and four steam turbines of undetermined capacity. Two more turbines were scheduled for installation. high tension line lead to Dnepropetrovsk.
- 7. Electrical repair shop (Elektro-Lemonthry Esekh), equipped with 4 lathes with a turning length of 2 to 4 neters: 2 shaping machines (files); 4 drilling actines with a caracity of up to 100 mm, 5 electric annealing furnaces; a winding machine for insulation; a resistance machine for the heating of soldering lanners; 1 drawing bench for copper hoops; with 120 men and 20 focule armsture winders working at this bench; a large crane, a small crane; and some small bench drills with caracities of up to 10 mm. ... storeroom and a tools distribution center were also located in this department.

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- 8. Turning plant, two-story brick building, 18x18 meters, equipmed with a centrifugal pumps of 100 IP each. Of ices of the technical and planning departments and the drafting (Vorkalkulation) section were on the second floor.
- Sa. Tater reservoir with a storage capacity of 12 hectoliters, a succel structure 35 meters high.
- 8b. Inderground mater reservoir, fed from the tomer. The reservoir measured 15x6 meters and extended about 8 meters below surface. It was covered mith sod.
- Designing office, a two-story brick structure, about 40x120 meters. On the ground floor were the canteen; the kitchen; workshops for the nanufacture of switching devices, ventilation devices, etc.; and the locksnith's and tinsmith's workshops. On the second floor were the designing offices for 60 draftsmen and other plant offices.
- "Insurumentalni" workshop, a stone and steel structure measuring 10. 100x 60 neters, the best equipped morkshop in the plant. ork mas done there for factory requirements. Storerooms, a locksmith's shop, the tools storeroom and a tool-steel dump were also in this building. The machine tool section in this show had 40 lathes with a turning length of up to 5 meters, 15 semi-automatic machines from the Loeve Firm in Berlin; 8 leinecker milling machines; 2 Furth type slot milling machines; 6 face grinding machines with electric chuck; and 25 cylindrical cuinding machines. The instruments section was equipped with 6 Friss hydraulic milling machines; 20 lathes delivered by the Loome and Boehringer Firm in Stuttgart with a turning longth of up to 4 meters; 12 Reinecker bovel coar milling machines: 4 bevel cear planing machines; 6 push type slotters; 6 vertical drilling and turning machines with diameters of from I to 1.2 neters; 6 shaping machines: 2 planing machines, 2 moters; and 16 milling machines, including hydraulic ones. The forge was equipped with 6 Teshe type air hammers of 800 kg each; 2 screw resses with a diameter of 100 nm; 8 oil-burning annealing furnaces, and 12 force fires with anvils. In the hardening shop were oil-fueled appealing furnaces and salt baths. Chromium, nickel, and copper plating as well as polishing and crinding was done in the galvanizing plant. The file cutting shop was equipped with two machines, and file cutting by hand was also done.
- 11. The retal foundry, a stone building about 50 meters square, with a shed roof and an annex. It was equipped with 2 melting furnaces, 6 forming machines, and traveling cranes. Irratures and bushings were produced there in addition to aluminum castings.
- 12. Cray iron foundry, a stone and steel structure, about 80x160 meters, with a sheet-notal roof. This foundry was equipped with 6 cupola furnaces which were to red three times a day; 1 electric furnace of German origin; 14 forming machines; and 4 automatic forming machines including 2 new merican ones. The Boviets intended to reproduce these mechines in a simplified form. This shop produced hearth plates, hearth rings, machine pacts, locomotive parts and cor wheels.
- 15. olling mill, a stone and steel structure, about 80x160 meters, mich a sheet-metal coof. This mill was equipped with a train

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of rollers for angular, Tlat, T, round, square, V, and TT-cirdors and rails. These rollers, designed for forward and backward travel, had 8 roller frames, but they were not fully utilized, as thir capacity was 100 percent above plant remirements. This shop also had a plate rolling mill; a blooming mill with an automatically operated train of rollers; a wire train; 6 oilburning annealing furnaces; 3 lathes for the rollers with 2 meters turning length; 2 shaping machines; a hot saw; 2 special chears, and heavy craneways.

- 14. Forging press (Lusnetzny Press), a reinforced concrete structure, object 50x160 meters, built in 1939 with a class roof. The press' work force was about 400, and it was equipped with a US 250,000-ton forcing press; 6 steen harmors, the bigget of them being 15 tons; 3 Baer drop harmers of 6 tons, and with a maximum height of 6 meters; 2 power shears with motors of 300 IP; 30 special harmors up to 1,000 kg; and 40 annealing furnaces, oilfired. Offices, storerooms, and canteens were also located in
- 15. Meel foundry, a stone and steel structure with a sheet-metal roof, about 40x120 and 20x60 meters. Of this shop's production 80 percent was waste. The foundry had 2 open-hearth furnaces; a ladle with a crame; a craneway for castings and patterns; 12 compressed-air forming machines; 2 edge mills for the molding sand, which had an admixture of graphite; a ladle on a freight car, a railroad crame for castings; a sandblast; a mig machine for relied products; welding sets; nneumatic horners for the cleaning of castings; and marking plates for the checking of complicated eastings. Dout 300 men worked at the prompetic lemmers in the

15a. Eministration building.

15b. Storehouse,

- 16. Compressor bouse for the steel foundry. This house was a brick-building, about 12x16 meters, and the installation had a total pressure of six atmospheres.
- 17. arehouse, a stone building about 50x60 meters with a slate roof. This building stored tin, comes, zinc, aluminum, wolfrem, bismuth, chromium, nickel, molybdenum, vanadium, silicium, lacquers, raints, paper, clothes, nacking material, armatures, wire, etc. Dook binding shop was also housed in this building.
- 18. Laboratory, a two-story stone building, about 20x140 meters, not yet completed in May 1049. Its equipment included an Maragaratus, tensile testing machines, an apparatus for testing pardness, and metallurgical testing instruments.
- 19. Otherage shed, a stone building about 30x80 meters with a sheetmetal roof. In this shed were stored dismantled German machines
  and instruments, such as scales, compasses, matches, seismographs,
  microscopes, and pyrometers. The shed was heavily quarded,
- 20. Ingineer- orpus, a three-story building about 40x120 meters, providing quarters for the plant's chief encineers.
- 21. "Mambuff" workshop, about 25x60 meters. This shop, which produced pressing machines, was equipped with 12 lathes of forman and Jussian origin and with a turning hearth of 4 meters; 3 forman and filling machines; 8 drilling machines with diameters of up 25X1 to 100 mm; 2 cold says; 3 jointers; 5 automatic machines for severs; a precision cylindrical grinding machine from Teiss in Jena.

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- 22. Fransformer Station.
- 25. Otheressing department, commising two stone shops, each 50x60 meters, with insulated sheet-metal mode. These shops had 6 Cernan screen prosses with a diameter of 150 cm, 10 Cernan eccentric presses; 1 Ternan hydraulic press of 800 tons, 6 wasian knuckle joint presses for the melding of tibes; 12 amealing furnaces, 2 drilling machines, and a shaping position.
- 24. Cold pressing department, about 50 octors studie and comprising 4 brick modishops with class coofs. These above, which manufactured shall parts, had 12 formen except it presses, 6 forman sere presses, 5 chains aking machines, 4 hoor-bonding mechines, and 2 electric butt melding sets.
- 25. "TW" shop (in ussian 3 BB)1 'he waning o' these letters mas not known to source. Terhops the letters stool for "Tavod Brysask". This shop, which produced large locomotive narts, was a stone and steel building, about 200x350x10 maters, ith sheet-metal and class roofs.
- 25a 25 15 asse bly hall for I constives in this hall fere 4 lathes of the turning learth of 5 meters; I lathes for the turning of heel acts and with a too height 1.10 meters; I shop tracks; and one track to the entrance gate.
- 25b. Lathe shop, which had 50 lathes with a turning learth of 5 eters; 12 numering machines; 6 to 5 shoring mechines, 2 semi-automatic machines for screws and nuts; 2 planting machines, 8 neters and with three-side planting, 5 frome drilling machines for locamotive frames; 2 slot milling machines; welding sets; neumatic homores, compressed-air drilling machines; and a vail road spur.
- 25c. Vertical drilling and turning till, producing scrop reals, and of up nod with 14 German vertical drilling and turning and income up to 2 netors in diameter, 4 (7) milling machines: 1 column type planing machine for cylinders; a cylinder drilling machine to a cylinder a cylinder drilling machine for cylinders; a cylinder drilling machine to a shoot tracks.
- Zod. Tender department, equipmed with 8 large latics with a farming length of 4 meters; 2 large lathes the termine length of 7 meters; 4 vertical drilling and turning medines 1.5 meters in diameter, 4 upright drills; 5 multiple-spindle drills with diameters of 12 mm, 2 bevel year shaping mechines; 1 special hevel year milling machine of Terman origin; 2 old give length planet planing machines; 3 einceker form whose planing machines; 2 plate rollers for rolling to a circle and stretching; 2 makes shop tracks. In addition, there was a small markshop for the manufacture of bods, safes, batchets, etc.
- 26 pint shop, a stone and steel bullidge, book "0x200 reters, with 2 lines roofs, and i shop tracks.
- 27. Itruetu al steel shor, a strue and social structure, about 25x80 meters. Ork relief for the construction of the limit mas done there.
- 28. Parventer show, obout 1 v60 others, one and the ood morning machines.

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Large assembly shop with 11 disles. His shop, measuring about 20025 meters, was covered with concrete slabs, but not yet each sted in 1949. It had 3 shop tracks in the main hall, 1 track at the disles, and 5 craneways at different levels, for up

39a. Administrative offices.

4十四百數名種自體主數自己構造結構 的现在分词 行行。 跨數四 29b. Fitting shop, equipped with planing machines and 2 dismantled German frame drilling machines, each about 20 meters long, one of them damaged beyond repair on the way from Germany.

290. Lathe shop for Theel sets.

The other aisles housed a lathe shop, a planing shop, and sections producing screws, bonding comper tubes, producing connecting rods, and fitting bushings. The workshop was inadequately equipped with jointers, automatic machines, lathes and shaping machines.

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- Three shops producing tenders. This stone and steel structure, about 80x150 meters, was not yet completed in any 1.49. 30.
- 31. Boiler forge, a stone and steel structure, about 45x100 meters. rellers. 6 annealing furnaces, 2 drilling machines, 1 edge planing machine, 15 cters long, a forge fire, 2 craneways, and
- Shop producing noils, old stone building about 20x60 peters. 32.
- 33. Steel fo ndry about 60x180 meters, roofed over in Tay 1940. The shop was designed for 4 electric artin furnaces.
- 34. Coking and cas plant with conveyor belt from the coal dump. The plant's foundations, about 40x120 meters, were due out
- Pro cooling towers for hot and cold rases. These towers were 35. schoduled to be 12 meters high, but only the foundations mere completed in lay 1.40.
- "ater tower, 35 meters high, not yet completed in May 1949. 36.
- 37. Pumping plant.
- Say mill, being dismantled in May 1949. 38.
- Scrap crushing plant, steel structure 57 meters high. 39.
- Three oil tanks, one of which was 12 neters in diameter and 14 40. meters high, while 2 were 9 meters in diameter.

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- 41. Grap dump.
- 42. Coal dump.
- 43. Garmill on the Desna liver, this mill had a spur track.
- 44. Looksaith shop for building machines,

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#### CENTRAL INTELLIGENCE AGENCY

45. Silica brick plant.

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- 45a. Sied.
- 46. Slag stone plant.
- 47. Engine house for plant locomotives. This house had a turntable.
- 48. Boiler house for the silica brick plant.
- 49. Gasoline station.
- 50. Fr Camp To 7326/1.
- 51. Pest stand for locomotives. This stone and steel structure, about 40x60x23 meters, was not completed in May 1949.
- 52. Boiler house for the heating of workshops os 29, 30, and 51.
- 55. Notor vehicle repair shop.
- 54. Paint shop.
- 55. Pattern shop.
- 56. Sandolast apparatus.
- 57. Site of the armature shop scheduled.
- 58. Site of the pneumatic brake shop scheduled.
- 59. Sate of the planned enlargement of the steel foundry to 33.
- 60. Site of the planned steam and special pressing plant to produce boiler bottoms and lids.
- 61. Apprentice shops.
- 62. Site of the planned annealing shop.

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